



CITY OF MOUNTAIN VIEW

Finance and Administrative Services Department • Purchasing Division
500 Castro Street • Post Office Box 7540 • Mountain View, California 94039-7540 • 650-903-6324 • FAX 650-968-5472

October 25, 2004

Company Name _____
Contact _____
And Address _____

REQUEST FOR PROPOSALS FOR INFRASTRUCTURE IMPROVEMENT PLANS
UPDATE PROJECT FOR GEOGRAPHICAL INFORMATION SYSTEM,
NO. R050525

The City of Mountain View invites your submittal of a proposal to provide the above-referenced goods and/or services according to the attached specifications, terms and conditions. Please complete this proposal as instructed below and return to the City at the address specified below and by the date due for proposal submittals.

TO: Jim Williamson, CPM, Administrative Services Manager
City of Mountain View
500 Castro Street
Mountain View, CA 94041
or
P.O. Box 7540
Mountain View, CA 94039-7540

The undersigned proposes to furnish to the City of Mountain View goods and/or services as defined herein for the prices shown herein in accordance with the specifications, terms and conditions attached hereto.

This Request for Proposals includes the following sections:

- Section 1: Terms and Conditions (Pages 1 - 9)
- Section 2: Specifications (Pages 1 - 11)
- Exhibit A: Plan Index Master List (Pages 10-017)
- Exhibit B: Database Technical Specification (Pages 10-013)
- Exhibit C: Sample Maps (Pages 1 - 3)

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INSTRUCTIONS FOR SUBMITTING RESPONSES

1. **Date Due:** 5:00 PM, Wednesday, November 24, 2004

2. **Preproposal Conference/Walk-Through:**

☒ Required ☐ Not Required

If required, the date, time and location of the preproposal conference/walk-through will be noted below. If required, the Vendor must attend the preproposal conference/walk-through to ensure that the Vendor is completely familiar with the work requested. The Administrative Services Manager may waive this requirement if, in the opinion of the Administrative Services Manager, the Vendor is familiar with the job.

The preproposal conference/walk-through will be held from 10:00 a.m. to Noon on Tuesday, November 9, 2004, meeting at City Hall in the Plaza Conference Room, 500 Castro Street, Mountain View, California.

3. **Questions:** Call the person named above at (650) 903-6324 for questions regarding this proposal process, or call Peter Maguire Senior System Analyst, at (650) 903-6173 for questions regarding the specifications and/or requirements.
4. **Reply Format:** The entire proposal form, including all attachments, must be returned by the due date to the above address. Vendors must submit five (5) copies of the proposal. Please minimize the bulk of your proposal by only submitting one (1) copy of standard brochures and materials. You are free to organize your proposal as you wish, as long as it includes the requested information and all of the forms included in this Request for Proposals (RFP) are completed as required. Vendors must number all pages of any attachments to the RFP and reference page and paragraph number of the RFP for all comments to the RFP. Vendors are asked to clearly identify any limitations or exceptions to the requirements inherent in this Request for Proposals. Alternative approaches will be given consideration if the approach clearly offers increased benefits to the City.

The proposal must include at least five (5) references of recent similar work experience, preferably for city governments. These references must include a contact person, phone number, length of time with the reference and brief description of the work/deliverables performed. The proposal must also include the Vendor's: most recent audited financial statements; number of years in business; description of any current ongoing litigation and who the litigation is with; number of employees in Northern California (listed by type of job category); business organization chart; ownership of your company; resumés of owner, president and/or top managers; and particular information regarding the individual who will be responsible for the work/deliverables requested in this RFP.

5. **Responsiveness and Selection Process:** The decision for selection will be made on a combination of criteria, including: total cost (including ongoing operating costs) and

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proposed value; similar successful experience; project management approach; technical merit; documented experience of employees to be involved with this service; quality and completeness of proposal; proof of warranty and repair services; degree and number of exceptions to specifications; proof of equivalency; flexibility and ability to be proactive; Vendor's ability to start the required services in a timely fashion; perception of company stability; and, if requested, oral presentation and tour of current similar work sites.

The City reserves the right to reject any and all proposals or to waive any minor errors, discrepancies or irregularities. The selection will be at the discretion of the Administrative Services Manager and may be made in any manner that best meets the needs of the City.

6. **Proposed Contract:** If one of the attachments to this RFP is a proposed contract, then the City intends to use the contract form in awarding this RFP. Vendors should review the terms and conditions contained in the contract and must note any exceptions, additions or modifications they would propose. Blanket substitution of the Vendor's standard contract for the City's proposed contract will not be permitted. If there is no attachment of a proposed contract, then the City plans to use the terms and conditions listed herein. If the Vendor desires to include additional terms and conditions, those terms and conditions to be added must be included in the Vendor's proposal and must be in a format easily readable by the City, to be at least 12-point type in black ink on white paper.

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TERMS AND CONDITIONS

1. **Payment Terms:** The City's terms are, at a minimum, net thirty (30) days after receipt of all goods and/or services and receipt of an approved invoice. Progress payment may be made if any of the following options have been selected by the City:
 - ☐ The City will pay eighty percent (80%) of the contract amount based upon operational completeness of all components of the project and receipt of an approved invoice. The balance will be paid within thirty (30) days, after thirty (30) continuous uninterrupted satisfactory days of operation and acceptance by the City.
 - ☐ The City will make monthly payments thirty (30) days after receipt of an approved invoice. Should the Vendor fail to provide the specified hours/service required on any specific day, those hours/services not provided may either be rescheduled at the City's discretion or deducted from the appropriate service period invoice using the additional service hourly rate(s) to calculate the deduction.
 - ☐ The City will pay twenty-five percent (25%) upon receipt of all hardware, forty percent (40%) upon successful installation, fifteen percent (15%) upon completion of all training and data conversion and the balance will be paid within thirty (30) days after thirty (30) continuous days of uninterrupted satisfactory performance and acceptance by the City.
 - ☐ The City will pay twenty percent (20%) upon receipt of each phase of the proposed work, and the final twenty percent (20%) after thirty (30) continuous days of uninterrupted satisfactory performance and acceptance by the City.
2. **Time of Delivery/Completion:** Time is of the essence on this purchase order. The Vendor shall deliver all of the goods or complete all of the services called for under this proposal within the number of working/calendar days or by the date specified for completion in this proposal, unless the delays are caused by the City or by acts of God. Failure to deliver on time shall be grounds for termination of this Agreement or invoke "Liquidated Damages" if required below.
3. **Freight Charges:** All prices bid shall include all freight costs and ownership transfers to the City at the City's location and are F.O.B. destination to the designated locations. Freight, if quoted separately, shall be prepaid and added to the invoice with ownership transferring to the City when delivery is completed to the City's location.
4. **Liquidated Damages:**
 - ☐ Required ☒ Not Required

If required, it is agreed by the Vendor that if the goods or services are not delivered complete, as called for in this proposal, damages will be sustained by the City, and that it is

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and will be impracticable and extremely difficult to ascertain and determine the actual damage which the City will sustain in the event of and by reason of such delay; and it is, therefore, agreed that the Vendor will pay to the City the sum of Three Hundred Fifty Dollars (\$350) per day for each and every calendar day's delay in finishing the work in excess of the number of working or calendar days prescribed or in excess of the date specified for completion or delivery of the goods or services, whichever is applicable in this Proposal; and the Vendor agrees to pay said liquidated damages as herein provided; and in case the same are not paid, agrees that the City may deduct the amount thereof from any moneys due or that may become due the Vendor under this proposal.

Partial payments paid to the Vendor after the scheduled completion dates shall not be constituted as a waiver of the City's right to assess liquidated damages.

5. **Firm Prices:** All quotes will be held firm for a minimum of thirty (30) days after the proposal due date listed above to allow adequate time for the City to consider each proposal and make an award. All blanks for unit price and total price shall be completed. Any discrepancy between the unit price and the extended or total price shall be determined by taking the lower price. Upon receipt of this proposal by the City, the Vendor shall be presumed to be thoroughly familiar with all the aspects of this proposal, including installation sites and all specifications and requirements of this proposal. The failure or omission to examine any location, equipment, form, instrument or document shall in no way relieve Vendor from any obligation in respect to this proposal.
6. **Warranty:** The delivered or installed goods, equipment or services shall be warranted to be free from defects in materials and workmanship. The warranty period shall begin upon acceptance by the City. As a minimum, all goods, equipment and services shall be warranted to operate satisfactorily in accordance with the requirements of these specifications, the representations of the Vendor and the published specifications of the manufacturer(s) for a period of at least one (1) year. Any defective goods, equipment or services shall be replaced or repaired within three (3) days at the City's location during the warranty period at no expense to the City.

7. **Prevailing Wages:**

☐ Required ☒ Not Required

If required, notice is hereby given that the latest general prevailing rate of per diem wages, as determined by the Director or the Department of Industrial Relations, State of California, is to be paid to the various craftsmen and laborers employed in the construction of this project and is made a part of the specifications and contract for this project.

Reference is hereby made to copies of the general rate of per diem wages as determined by the Director of the Department of Industrial Relations on file in the Department of Public Works, City of Mountain View, which are available to any interested party.

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For failure to pay the prevailing wages, the contractor shall forfeit, as a penalty, to the City, Fifty Dollars (\$50) for each workman for each calendar day or portion thereof who is paid less than the stipulated prevailing wage for work done under this contract, in violation of the provisions of the Labor Code, Sections 1770 to 1780, inclusive. In addition to said penalty, the contractor, or subcontractor, shall pay to each worker the difference between the prevailing wage and the amount paid to said worker for each calendar day for which said worker was paid less than the prevailing wage.

8. **MSDS:** General Industrial Safety Order 5195 requires Material Safety Data Sheets (MSDS) be supplied, for all applicable items, with the initial delivery.
9. **Licensed Contractor:** All contractors bidding on work requiring a State of California Contractor's License must state under penalty of perjury that they are a licensed contractor by listing their license number, date of expiration, type of license and description of that type of license.

Contractor's License No.: _____

Date of Expiration: _____

Type of License: _____

Description of License: _____

10. **Ownership and Collusion—Financial Interest by City Employees:** The bidder certifies, by signing this proposal, that he/she has not, directly or indirectly, been collusive with any other vendor or anyone else interested in this proposal. Additionally, the Vendor stipulates that no City officer or employee shall be financially interested, either directly or indirectly, in any contract, sale, purchase or lease to which the City is a party, and the Vendor stipulates that no City officer or employee has greater than five percent (5%) ownership in this company, as per Section 706 of the City of Mountain View Charter.
11. **Independent Contractor:** It is agreed that the Vendor is an independent contractor, and all persons working for or under the direction of the Vendor are Vendor's agents, servants and employees, and said persons shall not be deemed agents, servants or employees of the City.
12. **Assignment:** This Agreement, nor any part of this Agreement, may be assigned without the written consent of the other party.
13. **Termination:** The City may terminate this Agreement at any time with ten (10) days' written notice. The City will only pay for goods or services ordered and accepted by the City. Any payments made in advance will be returned to the City on a prorated basis, with the City only paying for those services actually provided.
14. **Funding Out Clause:** The City may terminate this Agreement every June 30, based upon the City Council not funding the purchase of goods or services to be provided in this Agreement after each July 1.

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15. **Nondiscrimination.** The Vendor shall afford equal employment opportunities for all persons without discrimination because of race, color, religion, sex, sexual orientation, political affiliation, national origin, ancestry, age, marital status or physical or mental disability.
16. **Applicable Laws and Attorneys' Fees:** This Agreement shall be construed and enforced pursuant to the laws of the State of California. Should any legal action be brought by a party for breach of this Agreement or to enforce any provision herein, the prevailing party of such action shall be entitled to reasonable attorneys' fees, court costs and such other costs as may be fixed by the court. Reasonable attorneys' fees of the City Attorney's Office, if private counsel is not used, shall be based on comparable fees of private attorneys practicing in Santa Clara County.
17. **Subcontractors:** The City prefers a proposal with a single or primary vendor. If you propose a multi-vendor or subcontracted approach, clearly identify the responsibilities of each party and the assurances of performance you offer. The Vendor is the prime contractor and is solely responsible for all of the Vendor's subcontractors.
18. **Insurance:**
 - a. **Commercial General Liability/Automobile Liability Insurance:** The Vendor shall obtain Commercial General Liability insurance and Automobile Liability insurance in the amount of One Million Dollars (\$1,000,000) per occurrence. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this contract or the general aggregate limit shall be twice the required occurrence limit. The Vendor's insurance coverage shall be written on an occurrence basis.
 - b. **Professional Liability Insurance:**

☐ Required

☒ Not Required

If required, the Vendor shall obtain Professional Liability insurance in the amount of One Million Dollars (\$1,000,000) per occurrence. Professional Liability insurance must be maintained and evidence of insurance shall be provided to the City for at least three (3) years after completion of work.
 - c. **Workers' Compensation Insurance:** The Vendor shall obtain statutory Workers' Compensation insurance and Employer's Liability insurance in the amount of One Million Dollars (\$1,000,000) per accident.
 - d. **Acceptability of Insurers:** Insurance is to be placed with insurers with a current *Best Rating* of A:VII unless otherwise acceptable to the City.
 - e. **Verification of Coverage:** Insurance, deductibles or self-insurance retentions shall be subject to the City's approval. Original Certificates of Insurance with endorsements shall be received and approved by the City before work commences, and insurance

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must be in effect for the duration of the contract. The absence of insurance or a reduction of stated limits shall cause all work on the project to cease. Any delays shall not increase costs to the City or increase the duration of the project.

f. Other Insurance Provisions:

- (1) The City of Mountain View, its officers, officials, employees and volunteers are to be covered as additional insured by Endorsement CG 20 10 11 85 for Commercial General and Automobile Liability coverage.
- (2) For any claims related to this project, the Vendor's insurance coverage shall be primary and any insurance or self-insurance maintained by the City, its officers, officials, employees and volunteers shall not contribute to it.
- (3) Each insurance policy required shall be endorsed that a thirty (30) day notice be given to the City in the event of cancellation or modification to the stipulated insurance coverage.
- (4) In the event the Vendor employs subcontractors as part of the work covered by this Agreement, it shall be the responsibility of the Vendor to ensure that all subcontractors comply with the same insurance requirements that are stated in this Agreement.

19. **Hold Harmless:** The Vendor hereby agrees to and shall indemnify, defend and hold the City, its officers, agents and employees harmless from any liability for damage or claims for damage for personal injury, including death and/or property damage, caused by negligent acts, errors or omissions in performance of professional services under this Agreement by the Vendor or the Vendor's contractors, subcontractors, agents or employees' operations under this Agreement. The City shall cooperate reasonably in the defense of any action, and the Vendor shall employ competent counsel, reasonably acceptable to the City Attorney.

20. **Reliance Upon Professional Skill:** It is mutually agreed by the parties that the City is relying upon the professional skill of the Vendor, and the Vendor represents to the City that its work shall conform to generally recognized professional standards in the industry. Acceptance of the Vendor's work by the City does not operate as a release of the Vendor's said representation.

21. **Extending Contract Pricing:** The successful Vendor will extend bid pricing as quoted herein to other political subdivisions (i.e., cities, counties, school districts, etc.).

☐

Yes

☐

No

If prices bid herein are offered to other political subdivisions, additional delivery charges, if any, must be negotiated between the political subdivision and the Vendor.

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22. **Entire Agreement:** This Agreement contains the entire understanding between the parties with respect to the subject matter herein. There are no representations, agreements or understandings (whether oral or written) between or among the parties relating to the subject matter of this Agreement which are not fully expressed herein. If the attachments or exhibits to this Agreement, if any, are inconsistent with this Agreement, this Agreement shall control.

23. **Bid Schedule**

(Please attach a price sheet to your proposal, listing the cost of each phase and all hourly rates that may be used for additional services.)

24. **Signatures:** The undersigned understands and agrees that the conditions set forth in the instructions to vendors, the terms and conditions, the specifications, together with the proposal and any other documents submitted in response to the foregoing, shall form a part of and be construed with the purchase order/contract.

VENDOR:

Company Name

Street Address of Company

Signature of Officer

City, State, Zip

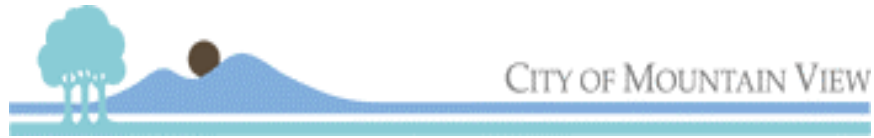
Printed Name of Officer

Telephone No./Fax No.

Title of Officer

Federal I.D. Tax Number

AS-10^(RFP)
(Rev. 3/10/04)



City of Mountain View

Public Work Department
Public Services Division

Specifications

For

Infrastructure Improvement Plans Update Project for
the Geographical Information System

Prepared By:

City of Mountain View

Peter Maguire, Senior Systems Analyst

October 22, 2004

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Attachments:

- Exhibit A – Infrastructure Improvement Plan Index Master List
- Exhibit B – Geographical Information System Database Technical Specification
- Exhibit C – Sample Maps

I. GENERAL INFORMATION

The City of Mountain View (City) seeks an experienced and qualified professional digital mapping services firm (Contractor) to provide digital update services for the City's Geographical Information (GIS) using approximately 600 infrastructure improvement projects by converting them from paper-to-digital format.

The infrastructure improvement projects represent approximately 15 percent of the most recent Utility and Transportation infrastructure changes needing to be updated into the GIS.

II. BACKGROUND INFORMATION

Since 1998, the City of Mountain View has identified and implemented several major projects to improve the completeness and accuracy of the GIS which is used for infrastructure management and analysis, map printing, and statistical reporting. Recent improvement projects have included the following:

- "GIS Orthophotography and Planimetry Services Project", Hammon, Jensen, Wallen, & Associates (March 1998).
- "Cadastral Adjustment Project", Barclay Mapworks (March 2001).
- "701 Utility Map Paper-to-Digital Conversion Project", Lynx Technologies (February 2002).
- "County of Santa Clara Orthophotography Acquisition Partnership", County of Santa Clara and City of San Jose (September 2002).
- "Encompass citywide desktop GIS applications", Geodesy (November 2002).

III. SCOPE OF WORK

The Contractor shall provide the following services and conform to the required specifications. However, the Contractor is encouraged to provide recommendations and improvements in the specifications. All changes in specifications and scope shall be in writing and agreed to by both the City and the Contractor.

The scope of work for professional consulting services will include:

A. General Project Tasking

1. The Contractor is expected to complete this project within six (6) months from the beginning of construction.
2. The Contractor shall be responsible reviewing the design improvement projects documents. (Exhibit A).
3. The Contractor shall prepare each paper infrastructure improvement drawing for heads-up-digitizing by scanning the document. The Contractor shall convert from paper-to-digital all the geometry and populate all the attributes related to the transportation, facility, and utility system improvement plan features and incorporate those changes into the existing GIS basemap.
4. The Contractor shall conform to the Database Design Technical Specifications for classifying and attributing the GIS features converted from the paper maps (Exhibit B). However, the Contractor is encouraged to suggest modification in the database design.
5. The Contractor shall QA/QC all the converted digital features to insure that each feature is spatially positioned, classified in the correct database layer, and populated with the associated attribute data contained on the paper drawings.
6. After completion of the Contractor's QA/QC, City staff shall QA/QC the digital conversions and will re-submit errors and omissions back to the Contractor that shall be corrected.
7. The Contractor will re-submit the corrected errors and omissions for final City review and acceptance.
8. When the final review is complete, the Contractor shall integrate (splice) the new digital features into the City's existing basemap features.
9. The Scope of Services shall be complete when the City reviews and accepts the new feature data and basemap integration.

B. Project Management

The consultant shall provide weekly progress reports and conduct monthly progress meetings with City staff. Progress meetings may be held concurrently with design review sessions. The Consultant shall attend project meetings as dictated by project needs. These meetings will include, but not be limited to, project kickoff, review of improvement plans, database specifications, and construction or QA/QC related issues

C. Data Collection

Information from the Capital Improvement Project and Private Development Project drawings shall include the following:

1. Improvement Drawings – Image

Scan each improvement drawing page that is associated with any collected utility, transportation, and facility map features. Format of the image will be black and white, uncompressed tif, 300 dots per inch (dpi) resolution, using the drawing number and page as the id (e.g. nnnn-n).

Captured in a Microsoft Access database shall include attributes from the drawing number (plan index), sheet number, total number of sheets, date of the engineer's approval, street name, cross street name, and tract or neighborhood.

The improvement plan drawings are time sensitive and the Contractor shall take off-site only small batches of the documents for one calendar week at a time and for the documents removed from the City, the Contractor shall coordinate check-out and check-in with assigned Public Works staff.

2. “Historical” Project Area mapbook

Hardcopy mapbook consisting of approximately 65 pages with highlighted outlines defining previous project areas. The book shall be converted to image format and the project areas converted into a new layer of GIS features.

3. Utility – Sanitary Sewer

Structures (cleanouts, manholes, etc), wyes, laterals, mains, and attribute annotation.

4. Utility – Storm Drainage

Mains, structures (inlets, manholes, etc) and attribute annotation.

5. Utility – Street Lighting
Conduit, poles, structures (pullboxes, etc), and attribute annotation.
6. Utility – Water Distribution
Hydrants, main structures (values, etc), service structures (valves, etc), hydrant lines, mains, service lines, and attribute annotation.
7. Transportation – Sidewalk
Front and back edge.
8. Transportation – Road Edge (face of curb)
Face of curb edge or pavement edge, landscape strips, medians, and traffic control islands.
9. Transportation – Traffic Signal
Pole or signal location and attribute annotation.
10. Facility – Building
Building outline (foot print).
11. Transportation – Street Sign
Pole location and attribute annotation.
12. Utility – Fiber Optic Cable
Conduit and attribute annotation.
13. Project Area Polygon.
A polygon feature that circumscribes the project area and attributed with the project plan id number.

D. Project Phases

This project shall consist of four (4) phases.

Phase I – Analysis/Design

1. Contractor shall attend City on-site meetings to review the improvement project drawing sets and recommend to the CITY appropriate processes and procedures that will be used to manage and handle with care, the paper-copy drawings being transferred between the CITY and Contractor. Upon City approval, Contractor shall proceed with the preparation of a preliminary methodology for digitizing the features from the improvement project drawings, facilitating QA/QC, and integrating and publishing the updated featured into the existing Geographical Information System.

2. Contractor shall conduct a workshop with City staff to demonstrate and explain the processes and procedures of how their staff will convert the paper-copy improvement project drawings into image format, capture the map features into digital format, properly identify and classify the features, the QA/QC methodology, the incorporation process for integrating the new information with the City's existing GIS and the Contractor's general understanding of the project, tasks required, deliverables, and the overall final product.

Phase II – Construction

1. Contractor shall systematically check-out and remove batches of improvement project drawings, from the City, and at their facility they shall scan, digitize, QA/QC, return and check-in the drawings with the City before proceeding with a new batch. Contractor will be providing batch updates to the City for review.
2. Contractor shall convert from paper-to-digital each requested map feature contained on the improvement plan drawings. Each collected map feature shall be geo-referenced and edge matched to existing map features and City's engineering and GIS map projection standard as follows:
 - The Map Projection used is Lambert Conformal Conic
 - The Geographic Coordinate System Name is GCS_North_America_1983
 - The Projected Coordinate System Name is NAD_1983_StatePlane_California_III_FIPS_0403_Feet
 - The Horizontal Datum used is North American Datum of 1983 (NAD83)
 - Vertical Position Control is North American Vertical Datum of 1988 (NAVD88)
 - The Ellipsoid used is Geodetic Reference System 80
 - Semi-major Axis is 6378137.000000
 - Denominator of Flattening Ratio is 298.257222
 - Planar Coordinates are specified in United States survey feet
3. Contractor shall provide the digital map features in ESRI's ArcGIS version 9.x Geodatabase format. Feature data shall be GIS compliant and follow topology rules such as polygon closure, flow direction, and connectivity.
4. Contractor is responsible for capturing new features and attributes from only the information contained on the plan drawings. The Contractor is not responsible for researching and updating missing information that

might need to add to the existing basemap layers but is encouraged to provide proposals for additional services.

5. Contractor shall update the map feature annotation layers following the same rules and content the existing basemap annotation layers. Generally, these rules include annotation set a 1 inch = 150 feet, (1:1800 RF) scale, no label overlaps with features or other labels (which included a combined Sewer and Storm), established font style/point size, and the use of leaders in congested areas.
6. Contractor shall created FGDC compliant metadata documentation for all layers. Metadata will be supplied in “html” format.
7. Throughout the construction phase, the Contractor shall provide City GIS staff with weekly batches of plan set converted data for QA/QC review. The associated scanned image must accompany the data, the data needs to be complete with the features and attributes from the plan, and already been through the Contractor’s internal QA/QC process.

Phase III – Quality Assurance/Quality Control

After Contractor constructs the new digital feature from the paper-drawings, City staff shall review each updated feature digitized by Contractor for the following:

1. Features and annotation geometry spatially correct and are assigned to the correct feature classes.
2. Feature attributes are assigned to the correct table attributes and conform to the pre-defined classifications.
3. New features are Geographical Information System compliant and are correctly integrated into the existing City’s feature layers.
4. Scanned plan images delivered on CD or DVD media will display, are labeled with the correct project id, and the associated MS-Access database has correctly assigned attribute values.

Phase IV – Publication

1. After final QA/QC review and City acceptance, Contractor shall integrate the new feature updates into the existing Geographical Information System Geodatabase.
2. City staff will be responsible for updating the Hansen and Encompass systems and publishing new Storm, Sewer, Lighting, and Water utility network paper map books.

3. Contractor shall demonstrate the feature metadata is FGDC compliant and intelligible.
4. Contractor shall attend a project conclusion meeting to review any outstanding issues prior to obtaining final approval and project completion.

IV. SCOPE OF BASIC SERVICES

The basic services consist, in general, of completing the phases and tasks as described in the scope of work above.

The scope of work described above is the minimum necessary to meet the City's objectives. The Consultant is expected to expand on this scope in the proposal, incorporating their expertise and proposed method of approach.

Although successful completion of all phases and tasks of the project is anticipated, the City reserves the right to terminate the work at any time it deems necessary. In the event of termination of the contract prior to its completion, the Consultant shall, at the option of the City, promptly deliver to the Public Works Director, all working papers, electronic files and data previously collected by the Consultant.

All work products generated by the Consultant and paid for by the City shall be the property of the City. All property rights, including publication rights to preliminary and final digital data prepared in conjunction with this project, shall be vested in the City of Mountain View. The Consultant shall not publish or release any of the results of the digital data without the express written permission of the City.

V. ADDITIONAL SERVICES

Additional services may consist of, in general, but not be limited to, field data collection or verification, additional paper-to-digital conversion, additional copies, legal services or the contracting of other professional consultants.

The City will review additional services on a case-by-case basis. Additional services requested in advance by the City, in writing to Consultant, shall be compensated for on an hourly basis in accordance with the rates set forth in the fee schedule submitted.

VI. AVAILABLE MATERIALS

The following background materials are available from Public Works, GIS Section as follows:

- A. Citywide GIS Basemap for Transportation, Facility, and Utility features in ESRI's ArcGIS version 9.x Geodatabase format, Windows2000.
- B. Citywide 0.25 Foot Color Orthophotography (aerial photography), Flown March 2001.
- C. City of Mountain View Standard Provisions, January 1988, Revised March 1990.
- D. City of Mountain View Standard Design Criteria, March 1983.
- E. Citywide infrastructure improvement drawings, Mylar, 20 scale.
- F. Citywide Benchmark Circuit and Geodetic Reference, Revised March 1992.

The City does not warrant the accuracy of the information contained in the materials it provides. Any materials that are provided are the property of the City of Mountain View and may not be used for any other purposes outside of this project without the expressed written approval of the City.

VII. PROJECT SCHEDULE

The tentative project schedule is as follows:

- | | |
|--|---------------------------------------|
| 1. Preproposal Meeting | November 9, 2004 |
| 2. Deadline for Submission of Proposals | November 24, 2004 |
| 3. Award of Consultant Contract | 15 business days after receipt of RFP |
| 4. Kick-off Meeting | 5 business days after item 3 |
| 5. Analysis/Design Phase Completed | 15 business days after item 4 |
| 6. Construction Phase Completed | 65 business days after item 5 |
| 7. Quality Assurance/Quality Control Phase Completed | 45 business days after item 6 |
| 8. Publication Phase Completed | 20 business days after item 7 |
| 9. End Construction—Project Accepted | 10 business days after item 8 |

VIII. SELECTION PROCESS

A selection committee consisting of Administrative Services, Public Works, and Public Services staff will evaluate the proposals submitted and rank each firm's proposal according to the selection criteria listed herein. Based upon this evaluation, the City may choose to contact two or more firms to clarify their proposals, approaches and qualifications to handle this project. At the conclusion of such interviews (or if a best-qualified firm is selected without the need for interviews), the City will enter into contract negotiations with the top-ranked firm.

If negotiations with the top-ranked firm are unsuccessful, the City will terminate these negotiations and undertake new negotiations with the second-ranked firm. If the new negotiations fail, the process will be repeated until a contract is negotiated successfully. City staff will make recommendations to the City Manager, which reserves the right to reject any or all proposals. The selection process will be completed when a contract is executed.

The City reserves the right to accept or reject any or all proposals. After a Consultant is selected by the City, the contents of the submitted proposal will become a contractual obligation. Failure of the Consultant to agree to include the proposal as part of the contractual agreement may result in cancellation of the award. The City reserves the right to negotiate a modification to or accept any part of the proposal and will not be obligated in any way to accept those parts that do not meet with the approval of the City. Other terms and conditions of the contract will be negotiated at the time of Consultant selection and will be subject to approval by the City.

IX. SELECTION CRITERIA

All proposals will be evaluated against the criteria listed in random order below:

1. The experience of the firm and project team in performing similar projects.
2. Record of similar work performed for the City and/or other public agencies.
3. Qualifications of key staff persons and subconsultants who will carry out the assignment.
4. Project approach.
5. Completeness in answering the Request for Proposal.
6. Degree of support necessary from City staff.
7. Ability to meet the project schedule.
8. Ability to meet insurance requirements.

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7571	78	City Project	01-48	Evelyn Avenue Improvements Phase III Between Bernardo Avenue and Pioneer Way	Evelyn Avenue between Bernardo Avenue and Pioneer Way
7570	46	City Project	00-32	Miramonte Reservoir Expansion	Miramonte Ave. between Berry Ave. and Covington Road
7567	8	Improvement Plans	Private	Springer Elementary School - Athletic Field	Rose Avenue Off Miramonte Avenue
7565	14	Improvement Plans	Fiber	Google Conduit replacement(primary)	Alta Avenue at Charlelston Road
7564	3	City Project	04-28A	Senior Center Demolition	266 Escuela Avenue
7563	38	City Project	02-21, 02-22	2001/2002 Water and Sewer Main Replacements	Various
7562	4	City Project	02-11	Frank Huff School Storm DrainImprovements	Martens Drive
7561	4	City Project	02-37	Wild Cherry Lane Paver Replacement	Wild Cherry Lane
7559	10	Improvement Plan	Private	8 lot subdivision	254 N. Whisman Road
7558	13	City Project	02-23	Temporary Senior Center site work	266 Escuela Avenue
7557	5	Improvement Plan	Fiber	Comcast Fiber Optics	Middlefield Rd. Between Terra Bella Ave. and Burgoyne St.
7556	16	City Project	02-29	Fire Station #3	301 Rengstorff Avenue
7554	21	City Project	02-27	Hetch-Hetchy Trail	Hetch-Hetchy Right-of-Way between Easy Street and N. Whisman Road
7553	8	Improvement Plan	Private	Improvement Plans for Tract#9362	1143,1151 &1171 Boranda Ave
7552	4	City Project	04-37	ADA Playground Improvements	San Veron & Rex Manor Parks
7551	7	Improvement Plans	Private	4 Lot Subdivision	242 Murlagan
7550	36	City Project	#00-30	Well #22 Pump Station	W. Evelyn Avenue @ ShorelineBlvd. (near Police/Fire Admin. Bldg.)
7547	3	City Project	03-15	Neighborhood Traffic Circle Installation	Bonita Avenue @ Barbara Avenue
7544	13	Improvement Plans	Private	Dana Street Day Care	250 E. Dana Street
7543	8	Improvement Plans	Private	3 lot subdivision	1092 Bonita Avenue
7542	14	City Project	00-21	Median Irrigation plan-Gateway Monuments	El Camino Real
7540	16	City Project	02-32	Cell 6A Northeast Landfill Gas system Replacement	Shoreline Park
7539	8	City Project	02-33	Upgrade Landfill Gas Collection System	Shoreline Park
7538	16	Improvement Plans	Fiber	Google conduit placement	Garcia Ave, Salado Dr., Charleston Rd., & Alta Ave.
7537	9	Improvement Plans	Fiber	Interconnect TCG	California St. & Hope St.

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7536	9	Improvement Plans	Fiber	Consortium Build Tie-in	S. Shoreline Blve @ ECR
7535	11	Improvement Plans	Fiber	Fiber Optics / Verisign	455 Middlefield Road
7534	9	Improvement Plans	Fiber	Fiber optics/ LSO Tie in (Excv.Prmt.2003-47&48)	Villa St., Franklin St., Hope St.
7533	16	Improvement Plans	Private	AOL/Netscape (Level 3)	475 Ellis Street
7532	139	City Project		City Hall/ Performing Arts	500 Castro Street
7528	14	Improvement Plans	Private	60 units - Condos	2124 Rock Street
7527	18	Improvement Plans	Private	7 lot subdivision	1579 -1595 Grant Road
7526	24	City Proj.	01-20, 01-21	Water and Sewer Main Replacement 2000-2001	
7524	3	Improvement Plans	Private	Concrete Sidewalk, Curb and Gutter Infill	756 California Street
7522	5	City Project	02-18	Ada Playground Improvements	Cooper, Monta Loma, Sylvan and Varsity Park
7520	10	City Project	87-12	Improvement Project Downtown Parking Lots 2,3,4,5 & 6	Bryant St., Hope St., & Bush St.
7518	6	City Project	01-52	Bridge Barrier Replacement	Moffett Blvd, Charleston Rd., Middlefield Rd.
7517	14	Improvement Plans	Private	21 units	399 W. El Camino Real
7516	6	City Project	96-59	MVPAC Café (interiors)	500 Castro St.
7515	58	City Project	00-49	Centennial Plaza/Dwntwn Transit Plaza-Castro Street Station	Evelyn Ave. X Castro St. & Hope St.
7512	9	Improvement Plans	Private		390 Moffett Blvd.
7511	25	City Project	00-54	MOC Bulk and Equalization Tank	Whisman Road
7509	15	Improvement Plans	Private	7 lot subdivision/PepperWood	200-216 Evandale Ave.
7508	6	City Project	99-32	Fire Station #2 - Fire Protection/Telecom	
7507	12	Improvement Plans	Private		1143, 1151, & 1171 Boranda Ave.
7506	5	City Project	96-40	Shoreline Golf Pond Storm Relief	
7505	1	City Project	02-03	2001-2002 Annual Slurry Seal Program	
7504	1	City Project	03-01	2002-2003 Annual Street Resurfacing Program	
7503	7	City Project	01-17	Shoreline Coast - Coast Restroom Facility	
7502	3	City Project	00-60	Police/Fire Administration Lobby Renovations	
7501	3	City Project	00-41	North Shoreline Water Main Replacement	

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7500	19	City Project	01-44	Golf Course Parking Improvements	
7499	4	Improvement Plans	Private	Crittenden Lane Median Island Removal	
7498	16	Improvement Plans	Private	XO	Hwy 101 crossing San Rafael / San Leandro & Macon Ave.
7497	5	Improvement Plans	Private		444 Castro St.
7496	51	Improvement Plans	Fiber	Level 3 (Loop C Seg 2)	Franklin, Evelyn, Central Expwy, Moffett, Middlefield Rd.
7494	2	Improvement Plans	Private		475 Ellis St.
7492	7	City Project		Downtown Parking Lot Recycling Enclosures	
7491	8	Improvement Plans	Private		Office building - 401 Castro St.
7490	35	City Project	02-26	El Camino Real Median Landscape Refurb. Phase III	
7488	17	Improvement Plans	Private	Office building, BV Sandis Humber Jones -(inclndng-Soil tie backs)	400 Castro St.
7486	20	City Project	00-54	MOC Bulk Storage Facility	
7484	50	City Project	99-32	Fire Station #2	Grant & Cuesta Dr.
7483	4	City Project	00-51	Senior Center Seismic - Phase I	
7482	5	City Project	01-47	Median Island Installation	Garcia Ave.
7481	8	Improvement Plans	Private		166-174 Centre St.
7479	3	Improvement Plans	Private		293 Sleeper Ave.
7477	15	Improvement Plans	Private		N. Shoreline-Terra Bella Ave./MCI Metro (Finer)
7476	4	Improvement Plans	Private		303 Bryant St. (Dana St./Wild Cherry Ln.)
7475	16	Improvement Plans	Fiber	Nextlink - Network Backbone	Intersection Middlefield/Rengstorff to Palo Alto City Limits
7474	19	Improvement Plans	Fiber	Nextlink - Network Backbone	W. Middlefield from Moffett to Rengstorff
7473	20	Improvement Plans	Fiber	Nextlink - Network Backbone	Sunnyvale City Limits to Moffett Blvd.
7472	18	Improvement Plans	Private	AOL/Netscape - MFS	475 Ellis St.
7471	13	Improvement Plans	Private	Brooksfiber/Verisign	455 E. Middlefield Rd.
7470	2	Improvement Plans	Private	Grading Utility	545 N. Whisman Rd.
7469	57	City Project	00-36	Phase II - Evelyn Improvement	Cross Stevens Creek & Pioneer Way
7467	2	Improvement Plans	Private	Grading , Drainage & Utility (From Bldg. Plan Set)	605 Ellis St.

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7466	8	Improvement Plans	Private		1235 La Avenida (La Avenida & Macon Ave.)
7464	12	Improvement Plans	Private		1061 & 1067 Bonita Ave.
7463	7	Improvement Plans	Private		230 Bryant St.
7462	15	City Project	00-52	Mercy-Bush Street Park	Mercy-Bush St.
7461	7	Improvement Plans	Private	Cal Tech Project	Whisman Rd.
7460	25	Improvement Plans	Private		285, 287 & 299 Chiquita Ave.
7459	8	Improvement Plans	Private	4 lot subdivision	Lloyd Way, Classic Communities
7458	7	City Project	99-46	Intersection Modification	Grant Rd./Cuesta Dr.
7457	56	City Project	99-26 & 01-42	Phase I & II - El Camino Real Median & Landscape	El Camino Real
7456	36	Improvement Plans	Private		Towne Court - 77 Ortega Ave.
7455	15	Improvement Plans	Private	AOL/Netscape Bldg. Comm.	475 Ellis St.
7454	45	Improvement Plans	Private	Charleston-Garcia Segment Point to Point	Charleston/Garcia
7453	1	City Project	01-03	Annual Slurry Seal Program	
7451	1	City Project	02-01	Annual Street Resurfacing Project	
7450	9	Improvement Plans	Private		Mountain View Main Post Office @ Hope St./Villa St.
7449	11	City Project	00-15	Neighborhood Traffic Management Project Improvement	
7447	4	Improvement Plans	Private	Driveway & Public Sidewalk	425 National Ave.
7445	2	City Project		Median Island Extension	Grant Rd./Oak Ln.
7444	3	City Project		San Antonio Pedestrian Underpass Rehabilitation	
7442	8	City Project	00-59	City Hall 4th Floor Restrooms	
7441	9	City Project	96-24	Cuesta Park Playground Renovations	
7440	51	City Project	99-20 & 99-21	Crittenden Parking/Vista Slope/Amphitheater Pkwy.	
7439	5	City Project		Pedestrian/Bike Message Signs	Moffett & Highway 85
7435	40	City Project	00-39	Adobe Building Restoration	
7434		City Project	94-32	New Library Project	
7433	19	Improvement Plans	Fiber	"Point to Point" Joint Bore	Logue Ave. to 805 Middlefield Rd.
7432	17	Improvement Plans	Fiber	QWEST Network Backbone	Ellis St./Manila Dr.
7431	25	City Project	95-22	Easy Street Park (Creeside)	
7430	5	City Project	00-43	Supply Branch Line	Shoreline Lake
7429	10	City Project	99-22	Shoreline Play Structure	

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7428	3	Improvement Plans	Private	Partial Transit Improvement (Mozart Dev.)	Ellis & Middlefield
7426	18	Improvement Plans	Private	XO Genuity Building Connection	Ferguson & Middlefield Rd
7424	51	Improvement Plans	Fiber	Level 3 Key Plan	Hope/Villa/California
7423	49	Improvement Plans	Fiber	Level (3)	Shoreline between Highschool, California, Oak
7422	3	Improvement Plans	Fiber	Winstar Wireless	Pioneer Way
7421	3	Improvement Plans	Fiber	AT&T Cable Services	Plymouth St.
7420	4	Improvement Plans	Private	Driveway & Public Sidewalk	615 National Ave.
7419	25	Improvement Plans	Fiber	Level 3 (Loop C)	California/Villa/Hope
7418	6	Improvement Plans	Fiber	AT&T Cable Services - Phase II Shoreline Project	
7414	4	Improvement Plans	Private		441 Logue Ave.
7413	12	City Project	96-56	Shoreline Widening Between Pear & Plymouth	
7412	9	City Project	00-28	1999-2000 Sanitary Sewer Main Replacements	
7411	12	Improvement Plans	Private	Winstar Wireless	Pioneer Way
7410	34	City Project	96-55C	Crittenden Storm Drainage Pump Station	
7409	7	City Project	96-55A	Crittenden Storm Drainage Inlet Piping	
7407	5	Improvement Plans	Private	2 lot subdivision	627 Sleeper Ave.
7406	75	Improvement Plans	Private	Williams Comm. - Phase I	Shoreline to Eastern city limits
7405	1	City Project	00-34	Chip Seal Program	
7404	10	City Project	00-22 & 93-15	Shoreline Golf Links (Front 9 Removal)	
7403	14	City Project	93-15F	Shoreline Golf Links (Front 9 LFG Improvements)	
7402	2	Improvement Plans	Private	Driveway & Public Sidewalk	National Ave.
7401	11	City Project	93-17F	Crittenden Landfill Landscaping	
7400	22	City Project	99-47	Traffic Signal Pre-Emption Systems - Phase II	
7399	3	City Project	97-30	Rengstorff Park - Pathway/BBQ etc.	
7398	9	City Project	99-35	Charleston Storm Drainage - Detention Pond Improvements	
7397	29	Improvement Plans	Fiber	Level (3) Comm.	Evelyn Ave.

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7396	5	City Project	00-47	Shoreline Golf Links - Irrigation Wells	
7394	1	City Project	01-01	2000-2001 Annual Street Resurface	
7393	9	Improvement Plans	Private	Landscaping Plans	350 Ellis St.
7392	5	City Project	96-34	Shoreline Lake Supply Line Access Port	
7391	19	Improvement Plans	Private		2750 Del Medio Ct.
7390	1	City Project	00-03	1999-2000 Annual Slurry Seal	
7389	41	Improvement Plans	Fiber	Joint Trench Nextlink	Shoreline, La Avenida, Macon, Middlefield
7387	3	Improvement Plans	Private		Bryant St. (offsite) Castro X California
7385	25	Improvement Plans	Private		Woodland Place - 285, 287 & 299 Chiquita Ave.
7384	7	Improvement Plans	Private	Cal Tech Project	Whisman Rd.
7383	10	Improvement Plans	Private	2 lot subdivision	26 Gladys Ave.
7382	5	Improvement Plans	Private	Bryant Gardens	364 Bryant St.
7381	49	Improvement Plans	Fiber	Point to Point (N. Bayshore Level 3/MFN/RCN/Nextlink)	
7379	47	Improvement Plans	Fiber	Williams Comm. - Phase II	Western City to Shoreline
7377	4	Improvement Plans	Private	AT&T Cable Service - Phase I	Shoreline Blvd.
7376	9	City Project	99-35	Charleston Storm Drainage - Detention Pond Improvements	
7375	8	City Project	AD 00-64	Yardis Ct. Improvement	Yardis Ct.
7374	16	City Project	00-18	Pioneer Park	Pioneer Park
7373	18	City Project	96-56	N. Bayshore Traffic Circulation Parking Improvements	
7372		Improvement Plans	Private	Light Rail Station Pedestrian Path	
7371	25	City Project	92-23	Permanente Creek Bridge	
7370	14	Improvement Plans	Private		2350 El Camino Real @ Ortega Ave.
7369	8	Improvement Plans	Private		2373 Wyandotte St. (Central Park)
7360	3	Improvement Plans	Private	Master Plan Fire Protection System	123 N. Whisman Rd.
7359	2	City Project	95-29	Police Parking Expansion	1000 Villa St.
7358	2	City Project	95-28	McKelvy Restroom Reconstruction	
7357	15	Improvement Plans	Private		1655 Lloyd Way

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7356	5	Improvement Plans	Private		Hilton Garden Inn - 840 El Camino Real
7355	4	City Project	00-48	Oil-Water Separate System	Fire Station #3 - 301 Rengstorff
7354	7	Improvement Plans	Private		1027 Mountain View Ave.
7353	7	Improvement Plans	Private		939 W. Dana St.
7352	5	Improvement Plans	Private		345 Mariposa Ave.
7351	28	Improvement Plans	Fiber	Level 3 @ Evelyn Ave.	Pioneer X Bernardo
7350	12	Improvement Plans	Private		114-120 Orchard Ave.
7349	15	City Project	94-32	Custom Library Furniture	
7347	3	City Project	97-53	Cuesta Tennis Restrooms Renovation	
7346	4	City Project	99-51	Wyandotte/Reinert Neighborhood Landscape	
7345	18	City Project	93-27	Shoreline Blvd. Drainage & Road Improvements	
7344	53	City Project	99-20 & 99-21	Amphitheatre Parkway Streetscape, Crittenden Parking/Vista Slope	
7343	14	City Project		Office Alterations (Comm. Devel. & Public Works Depts.)	500 Castro
7342	23	City Project	89-31	Charleston Slough Restoration	
7340	4	Improvement Plans	Private		785 Yuba Dr.
7338	36	City Project	96-48	Downtown Underground Utility District No.35	
7337	4	City Project	93-17E	Crittenden Air Compressor Station	
7336	15	City Project	99-47	Traffic Signal Pre-Emption Systems - Phase I	
7335	20	City Project	00-35	Shoreline Traffic Signal Intersection Project - Phase I	
7334	5	City Project	99-56	Traffic Signal Safety Lighting	Moffett/Cypress Point
7333	1	City Project	AD 80-11	Master Land Acquisition	Charleston/Joaquin/Huff
7332	1	City Project	97-17	Fairmont Park Play Equipment Renovations	
7331	6	City Project	96-49	Streetlight Installation	Evelyn/Rainbow
7330	27	City Project	00-50	San Antonio Reconfiguration/California St. Left Turn Improvement	
7329	3	City Project	99-06B	State Route 85 Off Ramp @ Moffett/Right Turn Modification	
7328	21	City Project	97-20	Median Landscape Renovation	Shoreline/Moffett

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7327	1	City Project	97-18	Demolition @ 859 Sierra Vista Ave.	859 Sierra Vista Ave.
7326	9	Improvement Plans	Private	Stevens Creek Trailhead Improvements @ La Avenida	1065 La Avenida
7325	1	City Project	99-03	1999-2000 Annual Slurry Seal	
7323	2	City Project		Golf Course Lake Aerator Driving Range	
7322	12	City Project	99-24	Shoreline Golf Link Back 9 Renovations	
7321	3	Improvement Plans	Private	3 lot common green	240 Oak St.
7320	1	City Project	00-01	1999-2000 Annual Resurfacing Program	
7317	21	City Project	92-23	Permanente Creek Bridge	
7316	49	City Project	96-57	Downtown Parking Lot Renovations/Street Improvements	
7315	5	City Project	96-57	Post-Top Streetlight Installation	
7314	19	Improvement Plans	Private		925 W. Evelyn - 156 Bryant St.
7313	3	Improvement Plans	Private		272 Bush St.
7312	17	City Project	96-42	Whisman Pump Station	
7311	8	City Project	99-37	1998-1999 City Sewer Main Replacements	
7310	59	City Project	99-42	Evelyn Ave. Improvements - Phase I	
7309	10	City Project	99-36	1998-1999 Water Main/Sewer Line Replacements	
7307	10	Improvement Plans	Private		Park Place Apts. - 750 Castro St.
7305	8	Improvement Plans	Private		1065 La Avenida - Macon Ave.
7304	7	Improvement Plans	Private		2025 El Camino Real
7303	9	Improvement Plans	Private	8 units	695 Mariposa Ave.
7302	16	Improvement Plans	Private		Silicon Graphics - Crittenden Lane
7298	7	City Project		Vista Site Condensate/Leachate Treatment System	
7297	4	City Project	93-16D	Vista Site Landfill Gas System	
7296	10	Improvement Plans	Private		2373 Wyandotte (Central Park)
7295	44	Improvement Plans	Private		Whisman Park
7294	4	Improvement Plans	Private		Crittenden Middle School - 1701 Rack St.

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7293	23	Improvement Plans	Private		2750 Del Medio Ct.
7292	14	City Project	90-40 & 90-41	Evelyn Ave. Water & Sewer	
7291	13	Improvement Plans	Private	Landscape Improvement Plans	Whisman Public Park
7290	3	City Project	96-57C	Downtown Intersection Lighting Improvements	
7286	28	Improvement Plans	Private	Amphitheatre Pkwy/Charleston Rd - Alza Corp.	1950 Charleston Rd.
7284	8	City Project		Fire Pre-Emption Addition - Phase II	El Camino Real
7283	6	Improvement Plans	Private	Median Landscape	Showers Dr.
7280	7	Improvement Plans	Private	Century Theatre/Left Turn Lane	1500 N. Shoreline Blvd.
7278	6	Improvement Plans	Private	Tech Farm Plaza	200-310 W. Evelyn Ave.
7277	4	Improvement Plans	Private	Devonshire - Phase II	127-129 Evandale Ave.
7276	36	City Project	95-26	Miramonte Pump Station	
7275	17	City Project	96-42	Whisman Pump Station	
7272	3	City Project	99-53	Temporary Fire Station #5	
7271	7	Improvement Plans	Private		Century Theatre - 1500 N. Shoreline
7270	55	Improvement Plans	Private	Joint trench composite & street lighting	Whisman Park
7269	3	Improvement Plans	Private		240 Oak St.
7268	2	City Project	95-29	Police Parking Expansion	1000 Villa St.
7267	4	Improvement Plans	Private		217 Pettis Ave.
7263	8	Improvement Plans	Private		1962 San Ramon Ave.
7262	3	Improvement Plans	Private	Theurkauf School	1625 San Luis Ave.
7261	6	Improvement Plans	Private		2350 El Camino Real @ Ortega Ave.
7260	5	Improvement Plans	Private		1280 Pear St.
7259	5	City Project	99-17	Median Island Installation	Ellis St.
7258	24	Improvement Plans	Private	Wood Haven Place	Leksich Ave.
7256	3	City Project	98-17	Median Island Installation	Ellis St.
7255	13	City Project	96-50	Median Island Replacement	Miramonte Ave.
7254	1	City Project	98-01	Annual Street Resurfacing Program	
7253	1	City Project	97-03	Annual Slurry Seal Program	
7249	4	Improvement Plans	Private	Hilton Garden Inn	840 El Camino Real

File No	No. of Pages	Project Type	Project No	Project Title	Location
7248	10	City Project	97-54	Miramonte Reservoir to Miramonte Pump Station, Miramonte Water Transmission Main Installation	
7247	4	City Project	96-53	Entry Storm Drainage	Shoreline
7246	3	City Project	97-32	Lighting	Golf Course Driving Range
7242	9	Improvement Plans	Private		695 Mariposa Ave.
7241	7	Improvement Plans	Private		"In & Out Berger" - 1159 Rengstorff Ave.
7239	26	City Project	95-22		East St. Park (Creekside Park) Dec. 97 (As Builts #7431)
7237	1	Improvement Plans	Private	New Mill 3 Phase 5 - PG&E Distribution System	New Mill Neighborhood 3
7236	1	Improvement Plans	Private	New Mill 3 Phase 5 - Gas Design	New Mill Neighborhood 3
7235	1	Improvement Plans	Private	New Mill 3 Phase 5 - Street Lighting Plan	New Mill Neighborhood 3
7234	2	Improvement Plans	Private	New Mill 3 Phase 5 - Joint Trench Composite	New Mill Neighborhood 3
7233	12	Improvement Plans	Private	New Mill 3 Phase 5 Neighborhood 3	New Mill Neighborhood 3
7232	2	City Project	95-29	Police Parking Expansion	
7231	2	Improvement Plans	Private	In & Out Berger Signal Modification	1159 Rengstorff Ave.
7230	7	Improvement Plans	Private		272-282 S. Shoreline Blvd.
7228	9	City Project	96-19	Water Main/Service Line	Ehrhorn, Anza, Mercy, Vincent
7227	4	Improvement Plans	Private	Landscaping	Central Expressway
7226	9	Improvement Plans	Private		690 Willowgate St.
7222	14	City Project	89-31C	Charleston Slough Tidegate Structure	
7221	19	City Project	89-31A	Charleston Slough Earthwork	
7220	14	Improvement Plans	Private	N. Shoreline Blvd. Improvements for Amphitheatre	
7219	142	City Project	92-15	Reach 3	Stevens Creek Trail/Wildlife Corridor
7216	12	Improvement Plans	Private	New Mill 3 Phase III	New Mill Neighborhood 3
7215	1	City Project	96-03	1996-1997 Annual Slurry Seal Project	
7213	9	Improvement Plans	Private	7 units	310 Tyrella Ave.
7211	37	City Project	93-15B	544 Acre West Landfill Gas System	

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File No	No. of Pages	Project Type	Project No	Project Title	Location
7210	3	Improvement Plans	Private		1131 Phyllis Ave.
7208	5	Improvement Plans	Private	Street Lighting	
7207	7	Improvement Plans	Private	Joint Trench Composite Plan	
7206	6	Improvement Plans	Private		313 Fairchild Dr./Whisman Rd.
7205	4	Improvement Plans	Private		East Dana St.
7201	15	City Project	96-19 & 96-20	Water & Sewer Main	Bryant St.
7200	4	City Project	96-60	Curb Replacement	Loreto/Anza
7199	19	City Project	89-31A	Charleston Slough Earthwork	
7198	28	Improvement Plans	Private		Town Square - Ferguson/Central Expwy.
7197	2	Improvement Plans	Private	New Mill 3 Phase IV - Street Lighting Plan	New Mill Neighborhood 3
7196	2	Improvement Plans	Private	New Mill 3 Phase IV - Joint Trench Composite	New Mill Neighborhood 3
7195	3	Improvement Plans	Private	New Mill 3 Phase IV - Landscape & Irrigation	New Mill Neighborhood 3
7194	14	Improvement Plans	Private	New Mill 3 Phase IV	New Mill Neighborhood 3
7193	2	City Project	97-06A	Sidewalk Reconstruction	Springer Rd.
7192	7	Improvement Plans	Private		227 Mountain View Ave.
7191	10	Improvement Plans	Private		2100 California Ave.
7190	5	Improvement Plans	Private		1106 Boranda Ave.
7189	4	Improvement Plans	Private		920 Rich Ave.
7188	5	Improvement Plans	Private		1356 Park Dr.
7187	8	Improvement Plans	Private		1983 Colony St.
7184	9	Improvement Plans	Private	8 lot common green subdivision	245 View St.-Accolade
7181	3	City Project	95-45	Landels Park Playground	
7180	9	Improvement Plans	Private		177 Ada Ave.
7178	14	City Project	93-26	Median Renovation	E. Middlefield Rd.
7177	3	City Project	95-39	Slater School Improvements	
7176	5	Improvement Plans	Private	Phase II	Lutheran Church - 300 Moorpark Way
7175	6	Improvement Plans	Private		415 E. Middlefield Rd.
7173	5	Improvement Plans	Private		369-441 N. Whisman Rd.
7172	3	Improvement Plans	Private		Mozart Development - 605 Fairchild Dr. & Clyde Ave.

File No	No. of Pages	Project Type	Project No	Project Title	Location
7171	4	Improvement Plans	Private	Peery Arrillaga	301 N. Whisman Rd. & E. Middlefield Rd.
7168	4	Improvement Plans	Private		Mozart Development - Middlefield Rd. & Ellis St.
7160	3	Improvement Plans	Private		1109 Boranda Ave.
7158	3	Improvement Plans	Private		464 Ellis St.
7157	6	Improvement Plans	Private		New Mill Neighborhood 3
7153	9	Improvement Plans	Private		690 Willowgate St./Willowgate Villa
7150	19	City Project	AD 96-43	Street Cross Sections	
7149	14	City Project	AD 96-43	Assessment District	Centre/Church/El Ranchito/Bay St.
7148	7	City Project		Joint Trench/Pac Bell Drawings	Bryant & W. Dana
7147	32	City Project	96-57 96-19 & 96-20	Street Improvements Water & Sewer Main Replacement	
7146	16	Improvement Plans	Private	Central Expressway Landscape Encroachment	California Station
7145	10	Improvement Plans	Private	Station Platform Parking Lot Plans	California Station
7144	7	Improvement Plans	Private	Street Lighting Plan	California Station
7142	1	City Project	97-01	Annual Street Resurfacing Program	
7141	7	Improvement Plans	Private		26 Devonshire Ave.
7140	7	Improvement Plans	Private	Joint Trench Composite	California Station
7139	52	Improvement Plans	Private		123 Whisman Rd. California Station
7138	3	City Project		Traffic Signal Project	Whisman Rd./Gladys Ave.
7137	3	Improvement Plans	Private		490 E. Middlefield
7136	8	Improvement Plans	Private		320 Logue Ave./850 Maude Ave.
7135	5	Improvement Plans	Fiber	MCI Metro - Excavation Permit #97-09	440 Clyde Ave.
7133	12	Improvement Plans	Private	Excavation Permit #96-87	Whitetree Inc. - 1371 Shorebird Way
7131	13	City Project	95-19	Independence Area/Water Main Replacement	
7130	4	Improvement Plans	Private		317 N. Rengstorff Ave.
7129	33	City Project	93-16A	Construction Drawings For Vista Landfill Closure	
7127	2	Improvement Plans	Private		608 Willowgate St.
7126	2	Improvement Plans	Private		2750 Del Medio Ct./United Test Center (offsite)

City of Mountain View
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EXHIBIT A

File No	No. of Pages	Project Type	Project No	Project Title	Location
7125	5	Improvement Plans	Private	Ground Water Extraction System Relocation Of Wells	
7124	5	Improvement Plans	Private	Plymouth Street Extraction - Offsite Expansion	
7120	7	Improvement Plans	Private	10 unit subdivision	227 Mountain View Ave.
7117	5	Improvement Plans	Private	3 unit common green subdivision	1356 Park Dr.
7116	2	Improvement Plans	Private		501 Ellis St.
7115	18	Improvement Plans	Private	New Mill Neighborhood 3 Phase II	New Mill Neighborhood 3
7114	22	City Project	95-17	Water Main Replacement	Farley/Escuela
7113	29	City Project	87-61	Shoreline Front Nine Landfill Gas Collection - Phase II	
7112	6	Improvement Plans	Private		920 Rich Ave.
7111	4	City Project	93-16C	Landing Closure/Gas Extraction	Amphitheatre Parkway
7110	17	City Project	93-17C	Crittenden Landfill Closure (Construction Drawings)	
7109	10	Improvement Plans	Private		2100 California Ave.
7108	19	City Project	93-17A	Canyon Fill/Reconsolidation	Crittenden Site
7107	5	City Project	94-46	City Hall 4th Floor HVAC Modification	
7106	19	Improvement Plans	Private	New Mill Neighborhood 3 Phase I	New Mill Neighborhood 3
7105	2	Improvement Plans	Private	New Mill 3 Phase I - Joint Trench Composite	New Mill 3
7104	1	City Project	96-01	Annual Street Resurfacing Program	
7103	6	City Project	87-39	Tertiary Effluent Water Extension	
7102	1	City Project	95-03	Annual Slurry Seal Program	
7100	6	City Project	88-52	Sewage Pump Station Renovation	
7099	1	City Project		Overpass Rail Guard	Evelyn Ave. at Whisman Rd.
7097	4	Improvement Plans	Private		800 E. Dana St. (Off-Site)
7094	8	Improvement Plans	Private	For City Centre Homes	
7093	14	City Project	95-47	Dana St. Median Island Installation	
7089	5	Improvement Plans	Private		1106 Boranda Ave.
7083	15	Improvement Plans	Private		599 Evelyn Construction Set
7079	7	Improvement Plans	Private		New Mill Neighborhood 2
7077	19	City Project	90-22	Shoreline Golf Clubhouse & Pro Golf Shop	
7076	4	City Project		LEL Monitoring System	Shoreline Clubhouse

City of Mountain View
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EXHIBIT A

File No	No. of Pages	Project Type	Project No	Project Title	Location
7075	7	City Project	94-10	Shoreline E-Lot Parking Improvements	
7074	5	City Project	88-27	Side Stairs	Police/Fire Administration bldg.
7073	1	City Project		Rengstorff Ave. Restriping	From El Camino Real to Latham
7072	1	City Project	95-01	1995-1996 Annual Street Resurfacing	
7071	3	City Project	93-22D	MOC Site Landscaping	
7070	13	City & State Project	92-43	Right Turn Lanes	Grant Rd/Hwy 237
7069	5	City Project	94-28B	Pavement, Sidewalk, Curb & Gutter Replacement - Phase II	
7068	4	City Project	94-28A	Montecito Ave. Reconstruction (Water & Sanitary Main Replacement) - Phase I	
7067	3	Improvement Plans	Private	3 unit	678 Willowgate Street
7066	1	City Project	94-04	1994-1995 Annual Slurry Seal Program	
7065	2	City Project	94-32	Interim Library Site Improvements	
7063A	5	City Project	93-22C	MOC Improvements/Electrical	
7063	5	City Project	93-22C	MOC Improvements (oversize)/Electrical	
7062	5	City Project	92-21B	North Shoreline Blvd. Lighting Improvements	Shoreline Park
7061	52	City Project	93-22	Fleet Service Center	MOC - Whisman Rd.
7060	7	City Project	92-04	High Level Ditch Pump Replacement	
7059	4	City Project	91-33	Storm Water Pump Station Tank Installation	Amphitheatre Parkway
7058	15	Improvement Plans	Private	Old Minton Lumber Site	599 Evelyn Ave.
7057	2	City Project	92-39	Zone 1 Well Replacement (New Well 18)	
7055	124	Improvement Plans	Fiber	For Excavation Permit #1996-001 - Fiber Optic Cable Route MCI Metro.	
7053	58	Improvement Plans	Fiber	MFS Network Technologies	Evelyn, North & South Backbone
7049	6	Improvement Plans	Private		Orchard Glen
7046	18	City Project	93-28 & 93-29	Rengstorff Park Basketball & BBQ Area	Rengstorff Park
7042	5	City Project	90-14	Sewer c/o Installation	Velarde/Loreto
7041	3	City Project	95-49	Marich Way Storm Drain Extension	
7039	5	Improvement Plans	Private		731 Sleeper Ave.

City of Mountain View
Plan Index Master List

EXHIBIT A

File No	No. of Pages	Project Type	Project No	Project Title	Location
7038	5	Improvement Plans	Private	unit 4	New Mill Neighborhood
7037	5	Improvement Plans	Private		218-236 Carmelita Drive
7036	10	Improvement Plans	Private	SGI Site	Amphitheatre Parkway & Charleston Road
7035	4	Improvement Plans	Private		446 Del Medio Ave.
7034	12	City Project	91-14	Stevens Creek Trail Reach 2 Unit B	Stevens Creek Trail
7033	6	City Project	87-12	Downtown Parking Lot #3,4 & 5	
7032	4	City Project	93-16B	Landfill Closure Improvements	
7031	16	Improvement Plans	Private		Showers Dr./New Mill Neighborhood 1
7030	3	Improvement Plans	Private		3110-312 Monroe Dr.
7028	3	Improvement Plans	Private		1058 Huff Ave./on Alta Ave./Alza
7027	2	Improvement Plans	Private		2609 Charleston Road
7026	2	Improvement Plans	Private		815 Maude Ave.
7025	7	Improvement Plans	Private		135-149 Margo Dr.
7021	8	Improvement Plans	Private	unit 3	New Mill Neighborhood
7019	4	City Project	89-20B	Well Improvements	
7016	4	Improvement Plans	Private		455 Bryant Ave.
7015	5	Improvement Plans	Private	Montwood Extr. Sys.	Charleston @ Huff
7012	4	City Project	87-36	Shoreline Tidal Marsh Improvements	
7010	2	City Project	89-20A	Portable Chlorinators	
7009	1	Improvement Plans	Private	Wal-mart/San Antonio Center	Calif. Ave. - Showers - ECR
7004	20	Improvement Plans	Private	unit 2	New Mill Neighborhood
7002	13	City Project	91-14	Stevens Creek Trail Reach 2/Unit A	
7000	5	City Project	93-15	Landfill Gas Control System	Shoreline
6999	20	City Project	94-19	ADA Concrete Curb Ramp Replacement	
6998	4	City Project	89-22	Sewer Infiltration Control	
6997	6	City Project	93-387	Sewer Pump Station, Main Air Handling System (City Project 92-35)	
6987	14	City Project	94-29	Shoreline Blvd. Traffic Improvements	
6986	82	City Project	90-22	Contract Plans (Bid Drawings)	Shoreline Clubhouse

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EXHIBIT A

File No	No. of Pages	Project Type	Project No	Project Title	Location
6982	9	City Project	92-20	Shoreline Boardwalk Renovation	
6981	10	City Project	93-46	Dana Street Narrowing Demolition	
6980	1	City Project	93-01	Annual Street Resurfacing	
6979	13	City Project	89-23	Coast Casey Storm Pump Station - Phase II	Coast Casey Storm Pump Station
6978	1	City Project	93-03	Slurry Seal Program	
6976	2	City Project	92-21C	N. Shoreline Golf Entry Road	
6974	68	City Project	90-22	Shoreline Golf Clubhouse (As Built) (Bid Plans #6986)	
6969	14	City Project	93-43	ADA Concrete Curb Ramp Replacement	
6962	6	City Project	88-37	Shoreline Lake Supply Pump	
6957	17	City Project	92-46	Public Library Alterations	
6955	6	City Project	92-38	Water Main Replacement	Heather, Jewel, Fay, W. Dana, etc...
6953	15	City Project	92-21A	Shoreline Clubhouse Parking Lot	
6950	14	City Project	90-14	Water & Sewer Replacement	Velarde/Loreto
6949	33	City Project	90-39	Seismic Retrofit	San Antonio Overcrossing
6948	3	City Project	92-03	Annual Slurry Seal	
6945	5	City Project	92-31	Seismic Upgrade	Fire Station #2
6944	14	City Project	89-59	Gemello Park	Gemello Park
6941	68	City Project	85-18	Fire Station #1	Fire Station #1
6937	4	City Project	84-26B	Eagle Park Turf	Eagle Park Turf
6936	2	City Project	91-27	High Level Ditch Pump Replacement	
6935	13	City Project	87-19	Adobe Building (Conceptual Plans)	
6933	5	City Project	85-24	Shoreline Levee Repair	
6931	2	City Project	89-23	Coast Casey Pump Station	
6928	13	City Project	87-30	Rengstorff Park BBQ Area	Rengstorff Park BBQ Area
6927	4	City Project	91-29	Traffic Signal Construction	Old Middlefield & Sierra Vista
6926	3	City Project	87-36	Stevens Creek Tidal Marsh	
6925	6	City Project	90-13	Traffic Signal Construction	Whisman Rd. & Ferry Morse
6924	14	City Project	92-45	Dana Park	Dana Park
6922	2	City Project	91-37	Bush-Mercy Park Demolition	Bush/Mercy
6920	2	City Project	92-30	Seismic Upgrade	Community Center
6917	7	City Project	91-35	Traffic Signal Plan	Amphitheatre Pkwy - N. Shoreline & Pear Ave.
6916	13	City Project	91-24B & A		Benjamin, Alvin, Oak, Dell, Anna, Elka & Victory Ave. Area
6903	1	City Project	84-51	Shoreline Holding Pond Pump Station Underground Fuel Tank Replacement	

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EXHIBIT A

File No	No. of Pages	Project Type	Project No	Project Title	Location
6902	2	City Project	92-01 & 92-93	Annual Street Resurfacing Program	
6901	1	City Project	91-30	Chip Seal Program	
6900	1	City Project	91-03 & 91-92	Slurry Seal Program	
6899	4	City Project	85-18A	Pal Building Demolition	251 Shoreline
6887	1	City Project	91-01	Annual Street Resurfacing	
6885	1	City Project	83-13C	MOC Covered Storage	
6861	4	City Project	AD 79-10	Water & Sewer Services	El Camino Real
6859	211	City Project	87-14	Castro Street Improvement Plans	
6858	7	City Project	88-33		Limetree Ln., Del Medio Ave., Orchard Ave.
6857	3	City Project	87-32-1	City Facility Reroofing/Repairs	
6856	7	City Project	88-51	Street Light Installations	
6855	1	City Project	90-03	1990-1991 Annual Slurry Seal Program	
6853	6	City Project	88-26	Police/Fire Administration Building Reroofing	
6847	13	City Project	87-30	Rengstorff Park Renovation	Rengstorff Park Lot
6846	18	City Project	88-28	Rengstorff Park Swimming Pool	Rengstorff Park Swimming Pool
6839	6	City Project	89-19	Water Main Replacement	West Middlefield Rd.
6838	1	City Project	86-53B	Old Police Building Demolition	
6837	1	City Project	86-53D	Fence At Fire Station #1	Fire Station #1
6836	4	City Project	85-16B	Miscellaneous Sewer Improvements	Jackson St.
6835	6	City Project	83-13	Municipal Operations Center Site Improvements	
6834	7	City Project	86-39	Bayshore Freeway Water Main Crossing	
6833	33	City Project	87-37	Shoreline Boathouse	Shoreline Boathouse
6830	6	City Project	84-15	Miramonte Reservoir Reroofing	
6828	4	City Project	88-21	Juvenile Detention	
6824	79	City Project	86-41	Bryant Street Parking Garage	Bryant Street Parking Garage

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City of Mountain View

Public Work Department
Public Services Division

Database Technical Specifications

For

Infrastructure Improvement Drawing Update Project
for the Geographical Information System

Prepared By:

City of Mountain View

Peter Maguire, Senior Systems Analyst

August 19, 2004

The following tables define the physical Geographical Information System database attribute fields and required values.

1. Plan Drawing Images

The following table shall non-georeferenced MS-Access database corresponding to the scanned image.

<u>Description</u>	<u>Value</u>
System: Document Image	
Entity_Type_Label: PlanIndexNumber	
Attribute_Label: SRC_DOC	
Attribute_Label: SHEET_NUMBER	
Attribute_Label: SHEET_TOTAL	
Attribute_Label: APPROVAL DATE	Project Approval
Attribute_Label: STREET_NAME	
Attribute_Label: CROSS_STREET NAME	
Attribute_Label: TRACT_NEIGHBORHOOD	

2. Historical Project Area

<u>Description</u>	<u>Value</u>
System: Administrative	
Entity_Type_Label: AD_HistoricalProjectArea	
Attribute_Label: SRC_DOC	

3. Common Basemap Field Values

The following are common basemap field values.

<u>FIELD</u>	<u>VALUE</u>
OWNER	CMV – City of Mountain View Private – Non-City of Mountain View Cal Water – California Water SCVWD – Santa Clara Valley Water District SFWD – San Francisco Water District
DEPTH	Feet Units
SRC_DOC	Plan Index number
DISTANCE	Feet Units
LENGTH	Feet Units
MATERIAL	ACP = Asbestos Cement Pipe CCP = Concrete Cylinder Pipe CMP = Corrugated Metal Pipe CIP = Cast Iron Pipe COP = Copper Pipe CONC = Concrete CSP = Concrete Steel Pipe DIP = Ductile Iron Pipe GALV = Galvanized Pipe

	HDPE = High-Density Polyethylene PACP = Perforated Asbestos Concrete Pipe PVC = Polyvinyl Chloride RCP = Reinforced Concrete Pipe STEEL = Steel TCP = Terra Cotta Pipe VCP = Vitreous Clay Pipe WSP = Welded Steel Pipe
<UNKNOWN Value>	-9

4. Storm Drainage System

Description	Value
System: StormDrainage	
Entity_Type_Label: SD_Main	
Attribute_Label: DIAMETER	
Attribute_Label: MATERIAL	See Common Field Values
Attribute_Label: UP_TYPE	
Attribute_Label: DN_TYPE	
Attribute_Label: SLOPE	
Attribute_Label: COMMENTS	
Attribute_Label: OWNER	See Common Field Values
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: ID	
Attribute_Label: UP_ID	
Attribute_Label: DN_ID	
Attribute_Label: REV_DATE	
Attribute_Label: FIELD0205A	
Attribute_Label: FIELD0205B	
Attribute_Label: LENGTH_701	
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	
Attribute_Label: NEWUNITID	

Description	Value
System: StormDrainage	
Feature Class: SD_Structure	
Attribute_Label: UNITID	
Attribute_Label: TYPE_	CULVERT DIRECT CONNECT DRAIN INLET DRY WELL MANHOLE OUTFALL

	PLUG PUMP STATION
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: ROTATION	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: MEASUREB	
Attribute_Label: MEASUREA	
Attribute_Label: ID	
Attribute_Label: FIELD0205B	
Attribute_Label: FIELD0205A	
Attribute_Label: DEPTH_701	
Attribute_Label: DEPTH_	
Attribute_Label: COMPTYPE	
Attribute_Label: COMPKEY	
Attribute_Label: COMMENTS	

<u>Description</u>	<u>Value</u>
System: StormDrainage	
Entity_Type_Label: SD_Anno	
Attribute_Label: Layer	System+Feature e.g. SDMAIN_MAT
Attribute_Label: Style	
Attribute_Label: Text_	MAIN = Main id, size, composition material, length (e.g. H4036 6" VCP 168') STRUCTURE = Structure id, invert depth (e.g. H4036 7.3')
Attribute_Label: Height	
Attribute_Label: Angle	
Attribute_Label: Font	

5. Sanitary Sewer System

<u>Description</u>	<u>Value</u>
System: SanitarySewer	
Entity_Type_Label: SS_Main	
Attribute_Label: DIAMETER	
Attribute_Label: MATERIAL	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: SRC_AGENCY	
Attribute_Label: COMMENTS	
Attribute_Label: UP_ID	

Infrastructure Improvement Drawing Update Project for the Geographical Information System

Attribute_Label: DN_ID	
Attribute_Label: UP_TYPE	
Attribute_Label: DN_TYPE	
Attribute_Label: ID	
Attribute_Label: LENGTH_701	
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	

Description	Value
System: SanitarySewer	
Entity_Type_Label: SS_Lateral	
Attribute_Label: MATERIAL	
Attribute_Label: CO_TYPE	1 = 1 way 2 = 2 way -9 = Unknown
Attribute_Label: DIAMETER	
Attribute_Label: DISTANCE	
Attribute_Label: FROM_PROP	
Attribute_Label: OWNER	
Attribute_Label: PROP_LINE	U = Up D = Down
Attribute_Label: COMMENTS	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: SRC_SCALE	
Attribute_Label: REV_DATE	
Attribute_Label: ID	
Attribute_Label: COMPKEY	
Attribute_Label: UNITID	

Description	Value
System: SanitarySewer	
Entity_Type_Label: SS_Structure	
Attribute_Label: CO_TYPE	1 = 1 way 2 = 2 way -9 = Unknown
Attribute_Label: COMMENTS	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: ROTATION	
Attribute_Label: DIAMETER	
Attribute_Label: DIRECTION	
Attribute_Label: TYPE_	Cleanout Manhole Plug Pump Station

	-9 = Unknown
Attribute_Label: DEPTH_	
Attribute_Label: ID	
Attribute_Label: UNITID	
Attribute_Label: COMPTYPE	

<u>Description</u>	<u>Value</u>
System: SanitarySewer	
Entity_Type_Label: SS_Wye	
Attribute_Label: ID	
Attribute_Label: DIAMETER	
Attribute_Label: DISTANCE	
Attribute_Label: OWNER	
Attribute_Label: COMMENTS	
Attribute_Label: SRC_COMM	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: REV_DATE	
Attribute_Label: BATCH	
Attribute_Label: DIRECTION	Right Left

<u>Description</u>	<u>Value</u>
System: SanitarySewer	
Entity_Type_Label: SS_Anno	
Attribute_Label: Layer	System+Feature e.g. SSMAIN_MAT
Attribute_Label: Style	
Attribute_Label: Text_	MAIN = Main id, size, composition material, length (e.g. H4036 6" VCP 168') STRUCTURE = Structure id, invert depth (e.g. H4036 7.3')
Attribute_Label: Height	
Attribute_Label: Angle	
Attribute_Label: Font	

6. Street Lighting System

<u>Description</u>	<u>Value</u>
System: StreetLighting	
Entity_Type_Label: SL_Conduit	
Attribute_Label: ID	
Attribute_Label: FR_NODE	
Attribute_Label: TO_NODE	
Attribute_Label: LENGTH	
Attribute_Label: COMMENTS	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	

Infrastructure Improvement Drawing Update Project for the Geographical Information System

Attribute_Label: SRC_AGENCY	
Attribute_Label: REV_DATE	

Description	Value
System: StreetLighting	
Entity_Type_Label: SL_Structure	
Attribute_Label: ID	
Attribute_Label: ELEC_NO	
Attribute_Label: TYPE	CAP LUM MPC PB PB2 RISER SP SPUP
Attribute_Label: LUM_TYPE	<NULL> HPS INC MV
Attribute_Label: WATTAGE	0 70 100 150 175 250 400
Attribute_Label: VOLTAGE	0 120 240
Attribute_Label: OH_UG	<NULL> UG
Attribute_Label: SRC_DOC	
Attribute_Label: ROTATION	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: REV_DATE	
Attribute_Label: LUMENS	4000 7500 11000 21000
Attribute_Label: SRC_AGENCY	
Attribute_Label: VOLT_STRIN	<NULL> 120V 240V
Attribute_Label: SYMBOL_	
Attribute_Label: CLASS	<NULL> I II III IV V
Attribute_Label: COMMENTS	
Attribute_Label: OWNER	

Attribute_Label: POLE_MATERIAL	Metal Wood
--------------------------------	---------------

7. Transportation Network

<u>Description</u>	<u>Value</u>
System: RoadEdge	
Entity_Type_Label: TR_RoadEdge	
Attribute_Label: SURFACE_WIDTH	20' 50 55' 70' 90' 100' 110' 120' 134'
Attribute_Label: TYPE	Alley Street Frontage Road Combined Bike Lane and Parking Bike Lane and No Parking
Attribute_Label: SURFACE_TYPE	Concrete Asphalt Gravel Dirt
Attribute_Label: OWNER	Public Private Restricted
Attribute_Label: DIVIDER	Raised Traffic Island Median Island Valley Gutter

<u>Description</u>	<u>Value</u>
System: Transporation	
Entity_Type_Label: TR_Trail	
Attribute_Label: SURFACE	Paved Unpaved
Attribute_Label: LOCATION	
Attribute_Label: DISPLAY	
Attribute_Label: NAME	

<u>Description</u>	<u>Value</u>
System: Transporation	
Entity_Type_Label: TR_Sidewalk	
Attribute_Label: SURFACE	
Attribute_Label: TYPE	10' Low Density Residential 10' High Density Residential 10' Commercial

	12' Industrial 12' Low Density Residential 12' High Density Residential 12' Commercial Detached
Attribute_Label: MATERIAL	
Attribute_Label: CURB_TYPE	Roll Monolithic Non-monolithic No curb No gutter

Description	Value
System: Transportation	
Entity_Type_Label: TR_TrafficSignal	
Attribute_Label: TYPE	
Attribute_Label: SRC_DOC	
Attribute_Label: OWNER	

Description	Value
System: Transportation	
Entity_Type_Label: TR_StreetSign	
Attribute_Label: TYPE	
Attribute_Label: SRC_DOC	
Attribute_Label: OWNER	

8. Water Distribution System

Description	Value
System: WaterDistribution	
Entity_Type_Label: WD_Main	
Attribute_Label: LENGTH	
Attribute_Label: DIAMETER	
Attribute_Label: MATERIAL	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: SRC_AGENCY	
Attribute_Label: COMMENTS	
Attribute_Label: ID	
Attribute_Label: UNITID	
Attribute_Label: COMPTYPE	

Infrastructure Improvement Drawing Update Project for the Geographical Information System

<u>Description</u>	<u>Value</u>
System: WaterDistribution	
Entity_Type_Label: WD_MainStructure	
Attribute_Label: OWNER	
Attribute_Label: COMMENTS	
Attribute_Label: REV_DATE	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: STATE	<NULL> NO
Attribute_Label: DIAMETER	
Attribute_Label: ROTATION	
Attribute_Label: ID	
Attribute_Label: TYPE_	Blow-Off Valve Cap Cathode Clayton Valve Main Valve Manifold (Count) Meter Box Pump Station Reducer Reservoir -9 = Unknown Valve Vault Well
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	

<u>Description</u>	<u>Value</u>
System: WaterDistribution	
Entity_Type_Label: WD_ServiceLine	
Attribute_Label: DIAMETER	
Attribute_Label: MATERIAL	
Attribute_Label: TYPE	DW – Domestic Water FL – Fire Line IRR – Irrigation -9 - Unknown
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: COMMENTS	
Attribute_Label: ID	
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	

Infrastructure Improvement Drawing Update Project for the Geographical Information System

<u>Description</u>	<u>Value</u>
System: WaterDistribution	
Entity_Type_Label: WD_ServiceStructure	
Attribute_Label: MTER_COUNT	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: COMMENTS	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: STATE	<NULL> NO
Attribute_Label: DIAMETER	
Attribute_Label: ROTATION	
Attribute_Label: ID	
Attribute_Label: TYPE_	Air Relief Valve Blow-Off Valve CAP Cathode Hydrant Valve Manifold (Count) Meter Box Valve Meter Box -9 - Unknown
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	

<u>Description</u>	<u>Value</u>
System: WaterDistribution	
Entity_Type_Label: WD_HydrantLine	
Attribute_Label: LENGTH	
Attribute_Label: DIAMETER	
Attribute_Label: MATERIAL	
Attribute_Label: SRC_DOC	
Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: REV_DATE	
Attribute_Label: OWNER	
Attribute_Label: SRC_AGENCY	
Attribute_Label: COMMENTS	
Attribute_Label: ID	
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	

<u>Description</u>	<u>Value</u>
System: WaterDistribution	
Entity_Type_Label: WD_Hydrant	
Attribute_Label: COMMENTS	
Attribute_Label: OWNER	
Attribute_Label: SRC_DOC	

Attribute_Label: SRC_DATE	
Attribute_Label: SRC_SCALE	
Attribute_Label: REV_DATE	
Attribute_Label: SRC_AGENCY	
Attribute_Label: ROTATION	
Attribute_Label: ID	
Attribute_Label: COMPTYPE	
Attribute_Label: UNITID	

Description	Value
System: WaterDistribution	
Entity_Type_Label: WD_Anno	
Attribute_Label: Layer	System+Feature e.g. WDMAN_MAT
Attribute_Label: Style	
Attribute_Label: Text_	MAIN = Main id, size, composition material, length (e.g. 6" VCP 168") STRUCTURE = Structure id, type, size, meter count (e.g. 8" FL)
Attribute_Label: Height	
Attribute_Label: Angle	
Attribute_Label: Font	

9. Building

Description	Value
System: Facilities	
Entity_Type_Label: FC_Building	
Attribute_Label: SRC_DOC	
Attribute_Label: OWNER	
Attribute_Label: TYPE	RESIDENTIAL INDUSTRIAL COMMERCIAL

10. Fiber Optic Cable System

Description	Value
System: Communications	
Entity_Type_Label: AD_FiberOptic	
Attribute_Label: SRC_DOC	
Attribute_Label: OWNER	
Attribute_Label: TYPE	
Attribute_Label: DIAMETER	

Description	Value
System: Communications	
Entity_Type_Label: AD_FiberOpticAnno	

Attribute_Label: Layer	System+Feature e.g. FOCONDUIT_MAT
Attribute_Label: Style	
Attribute_Label: Text_	Owner, Diameter, Type
Attribute_Label: Height	
Attribute_Label: Angle	
Attribute_Label: Font	

11. Tree

<u>Description</u>	<u>Value</u>
System: Vegetation	
Entity_Type_Label: VG_Tree	
Attribute_Label: SRC_DOC	
Attribute_Label: OWNER	
Attribute_Label: TYPE	
Attribute_Label: DIAMETER	

EXHIBIT C



PMaguire, 2004-09-23 08:31:45

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